



*Consulting Engineers  
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June 5, 2012  
(PBW Project No. 1651)

VIA ELECTRONIC MAIL AND FEDERAL EXPRESS

Mr. Chris Villarreal  
Remedial Project Manager, 6SF-RA  
U.S. Environmental Protection Agency Region 6  
1445 Ross Avenue  
Dallas, Texas 75202

Re: Bi-Monthly Progress Report, R&H Oil/Tropicana Energy Site, San Antonio, Texas

Dear Mr. Villarreal:

Pursuant to Section IX, Paragraph 37 of the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study (Settlement Agreement) for the above-referenced Site, Pastor, Behling & Wheeler, LLC (PBW) has prepared this bi-monthly progress report on behalf of the Respondents named in the Settlement Agreement. In accordance with the Settlement Agreement requirements, this progress report addresses the topics listed below:

1. Actions which have been taken to comply with the Settlement Agreement during the preceding two-month period – The following actions were taken during the previous two-month period:
  - Notification of intent to start the next phase of work at the Site, which included installation of additional monitoring wells and soil gas sampling, was provided to EPA on April 9, 2012.
  - Additional monitoring wells MW-21 and MW-22, and soil gas sampling points SG-21 and SG-22, were installed at the Site on May 7, 2012. The monitoring wells were surveyed for horizontal and vertical coordinates on May 10, 2012 by Doyle and Wachtstetter Surveyors.
  - Soil samples were collected during installation of MW-21 and MW-22.
  - Soil gas samples were unable to be collected from SG-21 and SG-22 due to low air permeability in the shallow soils.
  - Groundwater gauging and LNAPL thickness measurement events were conducted at the Site on April 11, 2012 and May 9, 2012. The results of the gauging events are provided in the Tables 1 and 2.
  - A Site-wide groundwater sampling event was conducted May 9 through May 11, 2012.

2. Quality-assured results of sampling, tests and all other quality-assured data received by Respondents during the preceding two-month period – No quality-assured data were received during the preceding two month period.
3. Work planned for next two months with schedules relating such Work to the overall project schedule for RI/FS completion – The following work is planned for the next two months:
  - Submittal of the Screening Level Ecological Risk Assessment (SLERA) is expected in the next two months.
  - Receipt, validation and evaluation of the soil and groundwater data collected during the most recent phase of investigation will be performed over the next two months.
  - Preparation of the RI Report will begin in the next two months.

The planned schedule for this work is generally consistent with the overall RI/FS schedule provided in the approved RI/FS Work Plan.

4. Problems encountered, anticipated problems, actual or anticipated delays, and solutions developed and implemented to address any actual or anticipated problems or delays – No problems or delays were encountered or anticipated during the preceding two-month period.

Thank you for the opportunity to submit this progress report. Should you have any questions, please do not hesitate to contact me.

Sincerely,

PASTOR, BEHLING & WHEELER, LLC



Eric F. Pastor P.E.  
Principal Engineer



Tim Nickels  
Project Scientist

Mr. Chris Villarreal

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cc: Marilyn Long – TCEQ  
Leslie Alexander – de maximis, inc.  
Lee Bishop – Exxon Mobil Corporation  
Heather Corken – Fulbright & Jaworski, LLP  
David Currier – Flint Group Incorporated  
Gary Elkin – BAE Systems Resolution, Inc.  
Jack Healy – Perkin Elmer Automotive Research, Inc.  
Heidi Hughes Bumpers – Jones Day  
Elizabeth Hurst – Structural Metals, Inc.  
Larry King – Flint Group Incorporated  
Earl Moran – Exxon Mobil Corporation  
James Morriss, III – Thompson & Knight, LLP  
Mary Smith - Office of the Attorney General of Texas  
Robert Sterrett – Itasca Denver, Inc.  
Rudy Valdes – National Radiator  
Elizabeth Webb – Thompson & Knight, LLP

**TABLE 1**  
**Monitoring Well Gauging Summary - April 11, 2012**  
R&H Oil Company/Tropicana Energy Superfund Site, San Antonio, Texas

Well ID	Date	Screen Interval (ft, BGS)	Measuring Point Elevation (ft, MSL)	Depth to Water (ft, BMP)	Depth to NAPL (ft, BMP)	NAPL Thickness (ft)	Water Level Elevation (ft, MSL)	Corrected Water Level Elevation (ft, MSL)
MW-1	4/11/2012	10-40	657.29	18.67	ND	--	638.62	638.62
MW-2	4/11/2012	11-42	659.25	20.74	ND	--	638.51	638.51
MW-3	4/11/2012	10-48	657.34	19.09	18.74	0.35	638.25	638.52
MW-4	4/11/2012	10-44	660.21	21.16	ND	--	639.05	639.05
MW-5	4/11/2012	10.5-43	656.93	18.31	18.3	0.01	638.62	638.63
MW-6	4/11/2012	10-54.5	656.95	18.89	18.51	0.38	638.06	638.36
MW-7	4/11/2012	30-45	655.13	16.71	ND	--	638.42	638.42
MW-8	4/11/2012	30-45	654.42	16.58	ND	--	637.84	637.84
MW-9	4/11/2012	25-40	654.17	15.84	ND	--	638.33	638.33
MW-10	4/11/2012	23-38	653.57	15.32	ND	--	638.25	638.25
MW-11	4/11/2012	25-40	654.55	16.12	ND	--	638.43	638.43
MW-12	4/11/2012	10-25	659.90	20.98	ND	--	638.92	638.92
MW-13	4/11/2012	10-25	662.65	25.37	23.94	1.43	637.28	638.40
MW-14	4/11/2012	10-25	660.17	21.84	21.49	0.35	638.33	638.60
MW-15	4/11/2012	10-25	659.94	21.35	21.32	0.03	638.59	638.61
MW-16	4/11/2012	10-25	659.20	20.86	ND	--	638.34	638.34
MW-17	4/11/2012	10-25	659.23	20.91	20.9	0.01	638.32	638.33
MW-18	4/11/2012	10-25	660.60	21.88	ND	--	638.72	638.72
MW-19	4/11/2012	10-25	658.37	19.91	19.84	0.07	638.46	638.51
MW-20	4/11/2012	10-30	659.38	20.81	ND	--	638.57	638.57
NMW-1	4/11/2012	10-25	662.30	23.76	23.54	0.22	638.54	638.71
NMW-2	4/11/2012	10-25	660.61	21.96	ND	--	638.65	638.65
NMW-3	4/11/2012	10-25	660.63	22.58	21.85	0.73	638.05	638.62
NMW-4	4/11/2012	10-25	660.99	22.38	ND	--	638.61	638.61
NMW-5	4/11/2012	10-25	660.45	21.76	ND	--	638.69	638.69

Notes:

1. Water levels in wells containing LNAPL were corrected using an LNAPL specific gravity of 0.78 as determined from analysis of LNAPL collected at well NMW-3.
2. ND - Measurable LNAPL thickness not greater than 0.01 feet. MSL = Mean sea level.
3. BMP = Below measuring point. BGS = Below ground surface.

**TABLE 2**  
**Monitoring Well Gauging Summary - May 9, 2012**  
R&H Oil Company/Tropicana Energy Superfund Site, San Antonio, Texas

Well ID	Date	Screen Interval (ft, BGS)	Measuring Point Elevation (ft, MSL)	Depth to Water (ft, BMP)	Depth to NAPL (ft, BMP)	NAPL Thickness (ft)	Water Level Elevation (ft, MSL)	Corrected Water Level Elevation (ft, MSL)
MW-1	5/9/2012	10-40	657.29	19.03	ND	--	638.26	638.26
MW-2	5/9/2012	11-42	659.25	21.14	ND	--	638.11	638.11
MW-3	5/9/2012	10-48	657.34	19.22	19.12	0.1	638.12	638.20
MW-4	5/9/2012	10-44	660.21	20.71	ND	--	639.50	639.50
MW-5	5/9/2012	10.5-43	656.93	18.97	18.95	0.02	637.96	637.98
MW-6	5/9/2012	10-54.5	656.95	19.21	18.96	0.25	637.74	637.94
MW-7	5/9/2012	30-45	655.13	17.12	ND	--	638.01	638.01
MW-8	5/9/2012	30-45	654.42	16.76	ND	--	637.66	637.66
MW-9	5/9/2012	25-40	654.17	16.28	ND	--	637.89	637.89
MW-10	5/9/2012	23-38	653.57	15.87	ND	--	637.7	637.70
MW-11	5/9/2012	25-40	654.55	16.54	ND	--	638.01	638.01
MW-12	5/9/2012	10-25	659.90	21.28	ND	--	638.62	638.62
MW-13	5/9/2012	10-25	662.65	25.86	24.33	1.53	636.79	637.98
MW-14	5/9/2012	10-25	660.17	22.12	ND	--	638.05	638.05
MW-15	5/9/2012	10-25	659.94	21.87	21.85	0.02	638.07	638.09
MW-16	5/9/2012	10-25	659.20	21.14	ND	--	638.06	638.06
MW-17	5/9/2012	10-25	659.23	21.35	21.34	0.01	637.88	637.89
MW-18	5/9/2012	10-25	660.60	22.29	ND	--	638.31	638.31
MW-19	5/9/2012	10-25	658.37	20.47	20.41	0.06	637.9	637.95
MW-20	5/9/2012	10-30	659.38	21.13	ND	--	638.25	638.25
MW-21	5/9/2012	8-23	654.19	16.31	ND	--	637.88	637.88
MW-22	5/9/2012	10-25	654.07	16.46	ND	--	637.61	637.61
NMW-1	5/9/2012	10-25	662.30	23.93	23.72	0.21	638.37	638.53
NMW-2	5/9/2012	10-25	660.61	22.36	ND	--	638.25	638.25
NMW-3	5/9/2012	10-25	660.63	24.05	21.97	2.08	636.58	638.20
NMW-4	5/9/2012	10-25	660.99	22.91	ND	--	638.08	638.08
NMW-5	5/9/2012	10-25	660.45	22.26	ND	--	638.19	638.19

Notes:

1. Water levels in wells containing LNAPL were corrected using an LNAPL specific gravity of 0.78 as determined from analysis of LNAPL collected at well NMW-3.
2. ND - Measurable LNAPL thickness not greater than 0.01 feet. MSL = Mean sea level.
3. BMP = Below measuring point. BGS = Below ground surface.